

## EMBEDDED IDENTIFIERS

### ABSTRACT

A manufactured item includes an outer part including at least one outer material;  
5 and an identifier including at least one three-dimensional configuration corresponding to  
the identifier, the at least one three-dimensional configuration being embedded within the  
outer part. The three-dimensional configuration includes at least one of (1) a  
substantially empty cavity in the at least one outer material, and (2) at least one  
identifying material filling at least part of a cavity in the at least one outer material.  
10 Where at least one identifying material fills at least part of a cavity in the at least one  
outer material, the at least one outer material is substantially opaque to visible light. The  
item may be manufactured using one of the processes generally known as rapid  
prototyping, but other manufacturing processes may be used as well. Methods for  
making the item and for making a computer-readable representation of the item are also  
15 disclosed.